

Amendments to the Specification

IN THE WRITTEN DESCRIPTION

Please replace paragraphs [0012], [0013], [0020], [0022], [0025], [0034] and [0037] with the following:

[0012] A further development of the invention provides that in dependency of environmental parameters, like slope incline, cable-winch operation, snow ~~thickness~~density, snow temperature and/or snow height, a change of the prioritizing is suggested by the processing system to an operator or is automatically carried out.

[0013] These measures make the operation of a snow-trail grooming vehicle significantly easier since the necessary change of a prioritizing is suggested to an operator or is even taken away from him. For example, during transitions from flat sections to steep sections a switching between a prioritizing of snow-trail grooming devices and to a prioritizing of the driving power should occur in order to prevent the snow-trail grooming vehicle from getting stuck. By carrying out such a change automatically in dependency of a slope incline, operating errors are avoided. As a result of the change of the prioritizing it is, for example possible to automatically reduce the shaving depth of a rear shaver and/or a bearing pressure thereof on the snow surface. It is also, for example, possible to change in dependency of the slope incline the position of a clearing blade in order to prevent the so-called digging in of the snow-trail grooming vehicle. Moreover, it is possible, for example, during a transition from natural snow to artificial snow, which can be determined using the snow ~~thickness~~density and snow temperature environmental parameters, to carry out a varying prioritizing and also adjustment of the snow-trail grooming devices in

order to at all times achieve a snow surface which has been worked to an optimum.

[0020] A further development of the invention provides that the adjustment of the drive motor, of the chain or track drive, and/or of further consumers within a traveling program occurs in dependency of environmental parameters, like the position of the snow-trail grooming vehicle, the height of the snow, the ~~thickness~~density of the snow, and the snow temperature, the slope incline and the like.

[0022] With a method for controlling a snow-trail grooming vehicle, especially for determining a ~~thickness~~density of the snow, the ~~thickness~~density of the snow is advantageously determined by means of a resistance measurement of the snow in the area of the snow-trail grooming vehicle and a subsequent processing of the measured values in a central processing system.

[0025] A resistance measurement by means of at least two electrodes permits a reliable determination of the ~~thickness~~density of the snow with little effort. To improve the measuring results clearly more than two electrodes can be used in order to be able to find several obtained measured values.

[0034] A further development of the invention provides in a snow-trail grooming vehicle means for determining environmental parameters, like the slope incline, cable-winch operation, ~~thickness~~density of the snow, temperature of the snow, and/or height of the snow.

[0037] A snow-trail grooming vehicle has advantageously a central processing system and means for measuring the

~~thickness~~density of the snow, whereby the means for measuring the ~~thickness~~density of the snow have at least two electrodes, which are arranged in the form of a rake, for the resistance measurement of the snow.

IN THE ABSTRACT OF THE DISCLOSURE

Attached hereto is a replacement Abstract with markings to show amendments.